

10731518_CLS1.txt
Most Frequently Occurring Classifications of Patents Returned
From A Search of 10731518 on December 15, 2005

Original Classifications

52	715/513
21	707/102
15	707/3
10	707/101
9	707/10
9	715/523
8	707/100
6	707/104.1
6	709/203
6	719/319
5	707/2
5	707/5
5	709/223
4	707/1
4	707/6
4	715/501.1
3	704/270
3	707/203
3	709/217
3	709/219
3	713/167
2	235/379
2	345/419
2	434/350
2	706/21
2	707/103R
2	707/4
2	709/200
2	709/204
2	709/206
2	709/231
2	709/246
2	714/38
2	715/503
2	715/511
2	715/515
2	715/760
2	715/762
2	717/114
2	717/115
2	717/143

Cross-Reference Classifications

75	715/513
27	707/10
22	707/101
22	715/501.1
21	707/102
21	707/104.1
21	709/203
20	707/100
17	715/514
16	707/3
16	709/219
15	715/522
13	709/217
13	715/523
12	707/4

12 709/223
 10 707/1
 10 707/103R
 10 707/5
 10 709/246
 8 707/6
 8 709/227
 8 715/530
 7 705/26
 7 707/2
 7 709/218
 7 709/230
 7 715/516
 7 715/517
 7 719/329
 6 709/201
 6 715/500
 6 715/762
 6 717/114
 6 717/143
 6 719/313
 5 704/270.1
 5 704/275
 5 707/203
 5 715/511
 5 715/515
 5 715/760
 5 715/764
 4 704/260
 4 705/71
 4 707/200
 4 709/200
 4 709/206
 4 709/249
 4 713/176
 4 717/116
 4 717/124
 4 719/328
 3 370/466
 3 379/88.17
 3 380/273
 3 380/277
 3 380/286
 3 380/44
 3 705/51
 3 705/76
 3 707/201
 3 709/202
 3 709/213
 3 709/226
 3 709/229
 3 713/155
 3 713/161
 3 713/165
 3 713/166
 3 713/170
 3 713/182
 3 713/189
 3 715/500.1
 3 715/524
 3 715/526
 3 715/708
 3 717/100

3 717/115
 3 717/140
 3 717/144
 3 718/100
 3 719/331
 2 348/207.99
 2 348/552
 2 434/118
 2 434/307R
 2 434/322
 2 703/23
 2 704/271
 2 705/1
 2 705/23
 2 705/24
 2 705/39
 2 705/44
 2 707/103Y
 2 707/202
 2 707/204
 2 707/9
 2 709/224
 2 709/225
 2 709/228
 2 709/231
 2 709/236
 2 709/247
 2 709/248
 2 715/503
 2 715/505
 2 715/512
 2 715/531
 2 715/700
 2 715/705
 2 715/854
 2 717/104
 2 717/106
 2 717/107
 2 717/136
 2 719/310
 2 719/332

Combined Classifications

127 715/513
 42 707/102
 36 707/10
 32 707/101
 31 707/3
 28 707/100
 27 707/104.1
 27 709/203
 26 715/501.1
 22 715/523
 19 709/219
 17 709/223
 17 715/514
 16 709/217
 16 715/522
 15 707/5
 14 707/1
 14 707/4
 12 707/103R
 12 707/2

12 707/6
12 709/246
9 709/227
8 707/203
8 709/218
8 709/230
8 715/516
8 715/517
8 715/530
8 715/762
8 717/114
8 717/143
7 705/26
7 715/500
7 715/511
7 715/515
7 715/760
7 719/313
7 719/329
6 704/270.1
6 704/275
6 709/200
6 709/201
6 709/206
6 719/319
5 704/260
5 715/764
5 717/115
4 704/270
4 705/71
4 707/200
4 707/201
4 709/202
4 709/213
4 709/231
4 709/249
4 713/176
4 715/503
4 715/526
4 717/100
4 717/116
4 717/124
4 717/144
4 719/328
3 370/466
3 379/88.17
3 380/273
3 380/277
3 380/286
3 380/44
3 705/51
3 705/76
3 707/103Y
3 707/204
3 707/9
3 709/224
3 709/225
3 709/226
3 709/228
3 709/229
3 713/155
3 713/161
3 713/165

3 713/166
 3 713/167
 3 713/170
 3 713/182
 3 713/189
 3 715/500.1
 3 715/505
 3 715/524
 3 715/708
 3 715/854
 3 717/104
 3 717/107
 3 717/136
 3 717/140
 3 718/100
 3 719/331
 2 235/379
 2 345/419
 2 348/207.99
 2 348/552
 2 434/118
 2 434/307R
 2 434/322
 2 434/350
 2 703/22
 2 703/23
 2 704/235
 2 704/271
 2 705/1
 2 705/14
 2 705/23
 2 705/24
 2 705/39
 2 705/44
 2 706/21
 2 707/202
 2 707/8
 2 709/204
 2 709/205
 2 709/236
 2 709/245
 2 709/247
 2 709/248
 2 714/38
 2 715/512
 2 715/531
 2 715/700
 2 715/705
 2 715/805
 2 717/106
 2 717/137
 2 718/101
 2 718/102
 2 719/310
 2 719/311
 2 719/332

Titles of Most Frequently Occurring Classifications of Patents Returned
From A Search of 10731518 on December 15, 2005

127	715/513	(52 OR, 75 XR)
	Class 715 :	DATA PROCESSING: PRESENTATION PROCESSING OF DOCUMENT
	715/500	PRESENTATION PROCESSING OF DOCUMENT
	715/513	.Structured document (e.g., HTML, SGML, ODA, CDA)
42	707/102	(21 OR, 21 XR)
	Class 707 :	DATA PROCESSING: DATABASE AND FILE MANAGEMENT OR DATA STRUCTURES
	707/100	DATABASE SCHEMA OR DATA STRUCTURE
	707/102	.Generating database or data structure (e.g., via user interface)
36	707/10	(9 OR, 27 XR)
	Class 707 :	DATA PROCESSING: DATABASE AND FILE MANAGEMENT OR DATA STRUCTURES
	707/1	DATABASE OR FILE ACCESSING
	707/10	.Distributed or remote access
32	707/101	(10 OR, 22 XR)
	Class 707 :	DATA PROCESSING: DATABASE AND FILE MANAGEMENT OR DATA STRUCTURES
	707/100	DATABASE SCHEMA OR DATA STRUCTURE
	707/101	.Manipulating data structure (e.g., compression, compaction, compilation)
31	707/3	(15 OR, 16 XR)
	Class 707 :	DATA PROCESSING: DATABASE AND FILE MANAGEMENT OR DATA STRUCTURES
	707/1	DATABASE OR FILE ACCESSING
	707/3	.Query processing (i.e., searching)
28	707/100	(8 OR, 20 XR)
	Class 707 :	DATA PROCESSING: DATABASE AND FILE MANAGEMENT OR DATA STRUCTURES
	707/100	DATABASE SCHEMA OR DATA STRUCTURE
27	707/104.1	(6 OR, 21 XR)
	Class 707 :	DATA PROCESSING: DATABASE AND FILE MANAGEMENT OR DATA STRUCTURES
	707/100	DATABASE SCHEMA OR DATA STRUCTURE
	707/104.1	.Application of database or data structure (e.g., distributed, multimedia, image)
27	709/203	(6 OR, 21 XR)
	Class 709 :	ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: MULTIPLE COMPUTER OR PROCESS COORDINATING
	709/201	DISTRIBUTED DATA PROCESSING
	709/203	.Client/server
26	715/501.1	(4 OR, 22 XR)
	Class 715 :	DATA PROCESSING: PRESENTATION PROCESSING OF DOCUMENT
	715/500	PRESENTATION PROCESSING OF DOCUMENT
	715/501.1	.Hypermedia
22	715/523	(9 OR, 13 XR)
	Class 715 :	DATA PROCESSING: PRESENTATION PROCESSING OF

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- 715/500 DOCUMENT
715/517 PRESENTATION PROCESSING OF DOCUMENT
715/523 .Layout
..Format transformation
- 19 709/219 (3 OR, 16 XR)
Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: MULTIPLE COMPUTER OR PROCESS COORDINATING
709/217 REMOTE DATA ACCESSING
709/219 .Accessing a remote server
- 17 709/223 (5 OR, 12 XR)
Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: MULTIPLE COMPUTER OR PROCESS COORDINATING
709/223 COMPUTER NETWORK MANAGING
- 17 715/514 (0 OR, 17 XR)
Class 715 : DATA PROCESSING: PRESENTATION PROCESSING OF
DOCUMENT
715/500 PRESENTATION PROCESSING OF DOCUMENT
715/514 .Hierarchical control
- 16 709/217 (3 OR, 13 XR)
Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: MULTIPLE COMPUTER OR PROCESS COORDINATING
709/217 REMOTE DATA ACCESSING
- 16 715/522 (1 OR, 15 XR)
Class 715 : DATA PROCESSING: PRESENTATION PROCESSING OF
DOCUMENT
715/500 PRESENTATION PROCESSING OF DOCUMENT
715/517 .Layout
715/522 ..Format information in separate file
- 15 707/5 (5 OR, 10 XR)
Class 707 : DATA PROCESSING: DATABASE AND FILE
MANAGEMENT OR DATA STRUCTURES
707/1 DATABASE OR FILE ACCESSING
707/3 .Query processing (i.e., searching)
707/5 ..Query augmenting and refining (e.g., inexact
access)
- 14 707/1 (4 OR, 10 XR)
Class 707 : DATA PROCESSING: DATABASE AND FILE
MANAGEMENT OR DATA STRUCTURES
707/1 DATABASE OR FILE ACCESSING
- 14 707/4 (2 OR, 12 XR)
Class 707 : DATA PROCESSING: DATABASE AND FILE
MANAGEMENT OR DATA STRUCTURES
707/1 DATABASE OR FILE ACCESSING
707/3 .Query processing (i.e., searching)
707/4 ..Query formulation, input preparation, or
translation
- 12 707/103R (2 OR, 10 XR)
Class 707 : DATA PROCESSING: DATABASE AND FILE
MANAGEMENT OR DATA STRUCTURES
707/100 DATABASE SCHEMA OR DATA STRUCTURE
707/103R .Object-oriented database structure
- 12 707/2 (5 OR, 7 XR)
Class 707 : DATA PROCESSING: DATABASE AND FILE

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	707/1	MANAGEMENT OR DATA STRUCTURES
	707/2	DATABASE OR FILE ACCESSING
		.Access augmentation or optimizing
12	707/6	(4 OR, 8 XR)
	Class 707	: DATA PROCESSING: DATABASE AND FILE
		MANAGEMENT OR DATA STRUCTURES
	707/1	DATABASE OR FILE ACCESSING
	707/3	.Query processing (i.e., searching)
	707/6	..Pattern matching access
12	709/246	(2 OR, 10 XR)
	Class 709	: ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
		SYSTEMS: MULTIPLE COMPUTER OR PROCESS COORDINATING
	709/246	COMPUTER-TO-COMPUTER DATA MODIFYING
9	709/227	(1 OR, 8 XR)
	Class 709	: ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
		SYSTEMS: MULTIPLE COMPUTER OR PROCESS COORDINATING
	709/227	COMPUTER-TO-COMPUTER SESSION/CONNECTION
		ESTABLISHING
8	707/203	(3 OR, 5 XR)
	Class 707	: DATA PROCESSING: DATABASE AND FILE
		MANAGEMENT OR DATA STRUCTURES
	707/200	FILE OR DATABASE MAINTENANCE
	707/201	.Coherency (e.g., same view to multiple users)
	707/203	..Version management
8	709/218	(1 OR, 7 XR)
	Class 709	: ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
		SYSTEMS: MULTIPLE COMPUTER OR PROCESS COORDINATING
	709/217	REMOTE DATA ACCESSING
	709/218	.Using interconnected networks
8	709/230	(1 OR, 7 XR)
	Class 709	: ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
		SYSTEMS: MULTIPLE COMPUTER OR PROCESS COORDINATING
	709/230	COMPUTER-TO-COMPUTER PROTOCOL IMPLEMENTING
8	715/516	(1 OR, 7 XR)
	Class 715	: DATA PROCESSING: PRESENTATION PROCESSING OF
		DOCUMENT
	715/500	PRESENTATION PROCESSING OF DOCUMENT
	715/514	.Hierarchical control
	715/515	..Compound document
	715/516	...Matching application process to displayed
		data type
8	715/517	(1 OR, 7 XR)
	Class 715	: DATA PROCESSING: PRESENTATION PROCESSING OF
		DOCUMENT
	715/500	PRESENTATION PROCESSING OF DOCUMENT
	715/517	.Layout
8	715/530	(0 OR, 8 XR)
	Class 715	: DATA PROCESSING: PRESENTATION PROCESSING OF
		DOCUMENT
	715/500	PRESENTATION PROCESSING OF DOCUMENT
	715/530	.Edit, composition, or storage control
8	715/762	(2 OR, 6 XR)

- Class 715 : DATA PROCESSING: PRESENTATION PROCESSING OF DOCUMENT
 715/700 OPERATOR INTERFACE (E.G., GRAPHICAL USER INTERFACE)
 715/762 .User interface development (e.g., GUI builder)
- 8 717/114 (2 OR, 6 XR)
 Class 717 : DATA PROCESSING: SOFTWARE DEVELOPMENT, INSTALLATION, AND MANAGEMENT
 717/100 SOFTWARE PROGRAM DEVELOPMENT TOOL (E.G., INTEGRATED CASE TOOL OR STAND-ALONE DEVELOPMENT TOOL)
 717/114 .Programming language
- 8 717/143 (2 OR, 6 XR)
 Class 717 : DATA PROCESSING: SOFTWARE DEVELOPMENT, INSTALLATION, AND MANAGEMENT
 717/100 SOFTWARE PROGRAM DEVELOPMENT TOOL (E.G., INTEGRATED CASE TOOL OR STAND-ALONE DEVELOPMENT TOOL)
 717/136 .Translation of code
 717/140 ..Compiling code
 717/141 ...Analysis of code form
 717/143Parsing, syntax analysis, and semantic analysis
- 7 705/26 (0 OR, 7 XR)
 Class 705 : DATA PROCESSING: FINANCIAL, BUSINESS PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION
 705/1 AUTOMATED ELECTRICAL FINANCIAL OR BUSINESS PRACTICE OR MANAGEMENT ARRANGEMENT
 705/26 .Electronic shopping (e.g., remote ordering)
- 7 715/500 (1 OR, 6 XR)
 Class 715 : DATA PROCESSING: PRESENTATION PROCESSING OF DOCUMENT
 715/500 PRESENTATION PROCESSING OF DOCUMENT
- 7 715/511 (2 OR, 5 XR)
 Class 715 : DATA PROCESSING: PRESENTATION PROCESSING OF DOCUMENT
 715/500 PRESENTATION PROCESSING OF DOCUMENT
 715/511 .Version management
- 7 715/515 (2 OR, 5 XR)
 Class 715 : DATA PROCESSING: PRESENTATION PROCESSING OF DOCUMENT
 715/500 PRESENTATION PROCESSING OF DOCUMENT
 715/514 .Hierarchical control
 715/515 ..Compound document
- 7 715/760 (2 OR, 5 XR)
 Class 715 : DATA PROCESSING: PRESENTATION PROCESSING OF DOCUMENT
 715/700 OPERATOR INTERFACE (E.G., GRAPHICAL USER INTERFACE)
 715/760 .Mark up language interface (e.g., HTML)
- 7 719/313 (1 OR, 6 XR)
 Class 719 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: INTERPROGRAM COMMUNICATION OR INTERPROCESS COMMUNICATION (IPC)
 719/313 INTERPROGRAM COMMUNICATION USING MESSAGE

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- 7 719/329 (0 OR, 7 XR)
 Class 719 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: INTERPROGRAM COMMUNICATION OR INTERPROCESS
 COMMUNICATION (IPC)
 719/328 APPLICATION PROGRAM INTERFACE (API)
 719/329 .Data transfer between application windows
- 6 704/270.1 (1 OR, 5 XR)
 Class 704 : DATA PROCESSING: SPEECH SIGNAL PROCESSING,
 LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO
 COMPRESSION/DECOMPRESSION
 704/200 SPEECH SIGNAL PROCESSING
 704/270 .Application
 704/270.1 ..Speech assisted network
- 6 704/275 (1 OR, 5 XR)
 Class 704 : DATA PROCESSING: SPEECH SIGNAL PROCESSING,
 LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO
 COMPRESSION/DECOMPRESSION
 704/200 SPEECH SIGNAL PROCESSING
 704/270 .Application
 704/275 ..Speech controlled system
- 6 709/200 (2 OR, 4 XR)
 Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: MULTIPLE COMPUTER OR PROCESS COORDINATING
 709/200 MISCELLANEOUS
- 6 709/201 (0 OR, 6 XR)
 Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: MULTIPLE COMPUTER OR PROCESS COORDINATING
 709/201 DISTRIBUTED DATA PROCESSING
- 6 709/206 (2 OR, 4 XR)
 Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: MULTIPLE COMPUTER OR PROCESS COORDINATING
 709/204 COMPUTER CONFERENCING
 709/206 .Demand based messaging
- 6 719/319 (6 OR, 0 XR)
 Class 719 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: INTERPROGRAM COMMUNICATION OR INTERPROCESS
 COMMUNICATION (IPC)
 719/319 DATA TRANSFER BETWEEN OPERATING SYSTEMS
- 5 704/260 (1 OR, 4 XR)
 Class 704 : DATA PROCESSING: SPEECH SIGNAL PROCESSING,
 LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO
 COMPRESSION/DECOMPRESSION
 704/200 SPEECH SIGNAL PROCESSING
 704/258 .Synthesis
 704/260 ..Image to speech
- 5 715/764 (0 OR, 5 XR)
 Class 715 : DATA PROCESSING: PRESENTATION PROCESSING OF
 DOCUMENT
 715/700 OPERATOR INTERFACE (E.G., GRAPHICAL USER
 INTERFACE)
 715/764 .On-screen workspace or object

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717/100	INSTALLATION, AND MANAGEMENT
717/114	SOFTWARE PROGRAM DEVELOPMENT TOOL (E.G.,
717/115	INTEGRATED CASE TOOL OR STAND-ALONE DEVELOPMENT TOOL)
	.Programming language
	..Script
4 704/270	(3 OR, 1 XR)
Class 704 :	DATA PROCESSING: SPEECH SIGNAL PROCESSING,
	LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO
	COMPRESSION/DECOMPRESSION
704/200	SPEECH SIGNAL PROCESSING
704/270	.Application
4 705/71	(0 OR, 4 XR)
Class 705 :	DATA PROCESSING: FINANCIAL, BUSINESS
	PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION
705/50	BUSINESS PROCESSING USING CRYPTOGRAPHY
705/64	.Secure transaction (e.g., EFT/POS)
705/71	..Including key management
4 707/200	(0 OR, 4 XR)
Class 707 :	DATA PROCESSING: DATABASE AND FILE
	MANAGEMENT OR DATA STRUCTURES
707/200	FILE OR DATABASE MAINTENANCE
4 707/201	(1 OR, 3 XR)
Class 707 :	DATA PROCESSING: DATABASE AND FILE
	MANAGEMENT OR DATA STRUCTURES
707/200	FILE OR DATABASE MAINTENANCE
707/201	.Coherency (e.g., same view to multiple users)
4 709/202	(1 OR, 3 XR)
Class 709 :	ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
	SYSTEMS: MULTIPLE COMPUTER OR PROCESS COORDINATING
709/201	DISTRIBUTED DATA PROCESSING
709/202	.Processing agent
4 709/213	(1 OR, 3 XR)
Class 709 :	ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
	SYSTEMS: MULTIPLE COMPUTER OR PROCESS COORDINATING
709/213	MULTICOMPUTER DATA TRANSFERRING VIA SHARED
	MEMORY
4 709/231	(2 OR, 2 XR)
Class 709 :	ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
	SYSTEMS: MULTIPLE COMPUTER OR PROCESS COORDINATING
709/230	COMPUTER-TO-COMPUTER PROTOCOL IMPLEMENTING
709/231	.Computer-to-computer data streaming
4 709/249	(0 OR, 4 XR)
Class 709 :	ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
	SYSTEMS: MULTIPLE COMPUTER OR PROCESS COORDINATING
709/249	MULTIPLE NETWORK INTERCONNECTING
4 713/176	(0 OR, 4 XR)
Class 713 :	ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
	SYSTEMS: SUPPORT
713/150	MULTIPLE COMPUTER COMMUNICATION USING
	CRYPTOGRAPHY
713/168	.Particular communication authentication
	technique
713/176	..Authentication by digital signature

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representation or digital watermark

- 4 715/503 (2 OR, 2 XR)
 Class 715 : DATA PROCESSING: PRESENTATION PROCESSING OF
 DOCUMENT
 715/500 PRESENTATION PROCESSING OF DOCUMENT
 715/503 .Spreadsheet

- 4 715/526 (1 OR, 3 XR)
 Class 715 : DATA PROCESSING: PRESENTATION PROCESSING OF
 DOCUMENT
 715/500 PRESENTATION PROCESSING OF DOCUMENT
 715/526 .Display processing

- 4 717/100 (1 OR, 3 XR)
 Class 717 : DATA PROCESSING: SOFTWARE DEVELOPMENT,
 INSTALLATION, AND MANAGEMENT
 717/100 SOFTWARE PROGRAM DEVELOPMENT TOOL (E.G.,
 INTEGRATED CASE TOOL OR STAND-ALONE DEVELOPMENT TOOL)

- 4 717/116 (0 OR, 4 XR)
 Class 717 : DATA PROCESSING: SOFTWARE DEVELOPMENT,
 INSTALLATION, AND MANAGEMENT
 717/100 SOFTWARE PROGRAM DEVELOPMENT TOOL (E.G.,
 INTEGRATED CASE TOOL OR STAND-ALONE DEVELOPMENT TOOL)
 717/114 .Programming language
 717/116 ..Object oriented

- 4 717/124 (0 OR, 4 XR)
 Class 717 : DATA PROCESSING: SOFTWARE DEVELOPMENT,
 INSTALLATION, AND MANAGEMENT
 717/100 SOFTWARE PROGRAM DEVELOPMENT TOOL (E.G.,
 INTEGRATED CASE TOOL OR STAND-ALONE DEVELOPMENT TOOL)
 717/124 .Testing or debugging

- 4 717/144 (1 OR, 3 XR)
 Class 717 : DATA PROCESSING: SOFTWARE DEVELOPMENT,
 INSTALLATION, AND MANAGEMENT
 717/100 SOFTWARE PROGRAM DEVELOPMENT TOOL (E.G.,
 INTEGRATED CASE TOOL OR STAND-ALONE DEVELOPMENT TOOL)

 717/136 .Translation of code
 717/140 ..Compiling code
 717/141 ...Analysis of code form
 717/144Including graph or tree representation
 (e.g., abstract syntax tree or AST)

- 4 719/328 (0 OR, 4 XR)
 Class 719 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: INTERPROGRAM COMMUNICATION OR INTERPROCESS
 COMMUNICATION (IPC)
 719/328 APPLICATION PROGRAM INTERFACE (API)

- 3 370/466 (0 OR, 3 XR)
 Class 370 : MULTIPLEX COMMUNICATIONS
 370/464 COMMUNICATION TECHNIQUES FOR INFORMATION
 CARRIED IN PLURAL CHANNELS
 370/465 .Adaptive
 370/466 ..Converting between protocols

- 3 379/88.17 (0 OR, 3 XR)
 Class 379 : TELEPHONIC COMMUNICATIONS
 379/67.1 AUDIO MESSAGE STORAGE, RETRIEVAL, OR SYNTHESIS

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- 379/88.17 .Interaction with an external nontelephone network (e.g., Internet)
- 3 380/273 (0 OR, 3 XR)
 Class 380 : CRYPTOGRAPHY
 380/255 COMMUNICATION SYSTEM USING CRYPTOGRAPHY
 380/270 .Wireless communication
 380/273 ..Rekeying system
- 3 380/277 (0 OR, 3 XR)
 Class 380 : CRYPTOGRAPHY
 380/277 KEY MANAGEMENT
- 3 380/286 (0 OR, 3 XR)
 Class 380 : CRYPTOGRAPHY
 380/277 KEY MANAGEMENT
 380/286 .Key escrow or recovery
- 3 380/44 (0 OR, 3 XR)
 Class 380 : CRYPTOGRAPHY
 380/277 KEY MANAGEMENT
 380/44 .Having particular key generator
- 3 705/51 (0 OR, 3 XR)
 Class 705 : DATA PROCESSING: FINANCIAL, BUSINESS PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION
 705/50 BUSINESS PROCESSING USING CRYPTOGRAPHY
 705/51 .Usage protection of distributed data files
- 3 705/76 (0 OR, 3 XR)
 Class 705 : DATA PROCESSING: FINANCIAL, BUSINESS PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION
 705/50 BUSINESS PROCESSING USING CRYPTOGRAPHY
 705/64 .Secure transaction (e.g., EFT/POS)
 705/76 ..Electronic credential
- 3 707/103Y (1 OR, 2 XR)
 Class 707 : DATA PROCESSING: DATABASE AND FILE MANAGEMENT OR DATA STRUCTURES
 707/100 DATABASE SCHEMA OR DATA STRUCTURE
 707/103R .Object-oriented database structure
 707/103Y ..Object-oriented database structure processing
- 3 707/204 (1 OR, 2 XR)
 Class 707 : DATA PROCESSING: DATABASE AND FILE MANAGEMENT OR DATA STRUCTURES
 707/200 FILE OR DATABASE MAINTENANCE
 707/201 .Coherency (e.g., same view to multiple users)
 707/204 ..Archiving or backup
- 3 707/9 (1 OR, 2 XR)
 Class 707 : DATA PROCESSING: DATABASE AND FILE MANAGEMENT OR DATA STRUCTURES
 707/1 DATABASE OR FILE ACCESSING
 707/9 .Privileged access
- 3 709/224 (1 OR, 2 XR)
 Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: MULTIPLE COMPUTER OR PROCESS COORDINATING
 709/223 COMPUTER NETWORK MANAGING

- 709/224 .Computer network monitoring
- 3 709/225 (1 OR, 2 XR)
 Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: MULTIPLE COMPUTER OR PROCESS COORDINATING
 709/223 COMPUTER NETWORK MANAGING
 709/225 .Computer network access regulating
- 3 709/226 (0 OR, 3 XR)
 Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: MULTIPLE COMPUTER OR PROCESS COORDINATING
 709/223 COMPUTER NETWORK MANAGING
 709/226 .Network resource allocating
- 3 709/228 (1 OR, 2 XR)
 Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: MULTIPLE COMPUTER OR PROCESS COORDINATING
 709/227 COMPUTER-TO-COMPUTER SESSION/CONNECTION
 ESTABLISHING
 709/228 .Session/connection parameter setting
- 3 709/229 (0 OR, 3 XR)
 Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: MULTIPLE COMPUTER OR PROCESS COORDINATING
 709/227 COMPUTER-TO-COMPUTER SESSION/CONNECTION
 ESTABLISHING
 709/229 .Network resources access controlling
- 3 713/155 (0 OR, 3 XR)
 Class 713 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: SUPPORT
 713/150 MULTIPLE COMPUTER COMMUNICATION USING
 CRYPTOGRAPHY
 713/155 .Central trusted authority provides computer
 authentication
- 3 713/161 (0 OR, 3 XR)
 Class 713 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: SUPPORT
 713/150 MULTIPLE COMPUTER COMMUNICATION USING
 CRYPTOGRAPHY
 713/160 .Packet header designating cryptographically
 protected data
 713/161 ..Data authentication
- 3 713/165 (0 OR, 3 XR)
 Class 713 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: SUPPORT
 713/150 MULTIPLE COMPUTER COMMUNICATION USING
 CRYPTOGRAPHY
 713/164 .Security kernel or utility
 713/165 ..File protection
- 3 713/166 (0 OR, 3 XR)
 Class 713 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: SUPPORT
 713/150 MULTIPLE COMPUTER COMMUNICATION USING
 CRYPTOGRAPHY
 713/164 .Security kernel or utility
 713/166 ..Security levels
- 3 713/167 (3 OR, 0 XR)
 Class 713 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING

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713/150 SYSTEMS: SUPPORT
MULTIPLE COMPUTER COMMUNICATION USING
CRYPTOGRAPHY

713/164 .Security kernel or utility

713/167 ..Object protection

3 713/170 (0 OR, 3 XR)
Class 713 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: SUPPORT

713/150 MULTIPLE COMPUTER COMMUNICATION USING
CRYPTOGRAPHY

713/168 .Particular communication authentication
technique

713/170 ..Authentication of an entity and a message

3 713/182 (0 OR, 3 XR)
Class 713 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: SUPPORT

713/182 SYSTEM ACCESS CONTROL BASED ON USER
IDENTIFICATION BY CRYPTOGRAPHY

3 713/189 (0 OR, 3 XR)
Class 713 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: SUPPORT

713/189 DATA PROCESSING PROTECTION USING CRYPTOGRAPHY

3 715/500.1 (0 OR, 3 XR)
Class 715 : DATA PROCESSING: PRESENTATION PROCESSING OF
DOCUMENT

715/500 PRESENTATION PROCESSING OF DOCUMENT

715/500.1 .Synchronization of diverse media

3 715/505 (1 OR, 2 XR)
Class 715 : DATA PROCESSING: PRESENTATION PROCESSING OF
DOCUMENT

715/500 PRESENTATION PROCESSING OF DOCUMENT

715/505 .Form

3 715/524 (0 OR, 3 XR)
Class 715 : DATA PROCESSING: PRESENTATION PROCESSING OF
DOCUMENT

715/500 PRESENTATION PROCESSING OF DOCUMENT

715/517 .Layout

715/524 ..Detecting format code change

3 715/708 (0 OR, 3 XR)
Class 715 : DATA PROCESSING: PRESENTATION PROCESSING OF
DOCUMENT

715/700 OPERATOR INTERFACE (E.G., GRAPHICAL USER
INTERFACE)

715/705 .Help presentation

715/708 ..Context sensitive

3 715/854 (1 OR, 2 XR)
Class 715 : DATA PROCESSING: PRESENTATION PROCESSING OF
DOCUMENT

715/700 OPERATOR INTERFACE (E.G., GRAPHICAL USER
INTERFACE)

715/764 .On-screen workspace or object

715/853 ..Hierarchy or network structure

715/854 ...Navigation within structure

- 3 717/104 (1 OR, 2 XR)
 Class 717 : DATA PROCESSING: SOFTWARE DEVELOPMENT,
 INSTALLATION, AND MANAGEMENT
 717/100 SOFTWARE PROGRAM DEVELOPMENT TOOL (E.G.,
 INTEGRATED CASE TOOL OR STAND-ALONE DEVELOPMENT TOOL)
 717/104 .Modeling
- 3 717/107 (1 OR, 2 XR)
 Class 717 : DATA PROCESSING: SOFTWARE DEVELOPMENT,
 INSTALLATION, AND MANAGEMENT
 717/100 SOFTWARE PROGRAM DEVELOPMENT TOOL (E.G.,
 INTEGRATED CASE TOOL OR STAND-ALONE DEVELOPMENT TOOL)
 717/106 .Code generation
 717/107 ..Component based
- 3 717/136 (1 OR, 2 XR)
 Class 717 : DATA PROCESSING: SOFTWARE DEVELOPMENT,
 INSTALLATION, AND MANAGEMENT
 717/100 SOFTWARE PROGRAM DEVELOPMENT TOOL (E.G.,
 INTEGRATED CASE TOOL OR STAND-ALONE DEVELOPMENT TOOL)
 717/136 .Translation of code
- 3 717/140 (0 OR, 3 XR)
 Class 717 : DATA PROCESSING: SOFTWARE DEVELOPMENT,
 INSTALLATION, AND MANAGEMENT
 717/100 SOFTWARE PROGRAM DEVELOPMENT TOOL (E.G.,
 INTEGRATED CASE TOOL OR STAND-ALONE DEVELOPMENT TOOL)
 717/136 .Translation of code
 717/140 ..Compiling code
- 3 718/100 (0 OR, 3 XR)
 Class 718 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 TASK SYSTEMS: VIRTUAL MACHINE TASK OR PROCESS MANAGEMENT OR
 MANAGEMENT/CONTROL
 718/100 TASK MANAGEMENT OR CONTROL
- 3 719/331 (0 OR, 3 XR)
 Class 719 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: INTERPROGRAM COMMUNICATION OR INTERPROCESS
 COMMUNICATION (IPC)
 719/331 DYNAMIC LINKING, LATE BINDING
- 2 235/379 (2 OR, 0 XR)
 Class 235 : REGISTERS
 235/375 SYSTEMS CONTROLLED BY DATA BEARING RECORDS
 235/379 .Banking systems
- 2 345/419 (2 OR, 0 XR)
 Class 345 : COMPUTER GRAPHICS PROCESSING, OPERATOR
 INTERFACE PROCESSING, AND SELECTIVE VISUAL DISPLAY
 SYSTEMS
 345/418 COMPUTER GRAPHICS PROCESSING
 345/419 .Three-dimension
- 2 348/207.99 (0 OR, 2 XR)
 Class 348 : TELEVISION
 348/207.99 CAMERA, SYSTEM AND DETAIL
- 2 348/552 (0 OR, 2 XR)
 Class 348 : TELEVISION
 348/552 COMBINED WITH DIVERSE ART DEVICE (E.G.,
 COMPUTER, TELEPHONE)

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- 2 434/118 (0 OR, 2 XR)
 Class 434 : EDUCATION AND DEMONSTRATION
 434/118 COMPUTER LOGIC, OPERATION, OR PROGRAMMING
 INSTRUCTION
- 2 434/307R (0 OR, 2 XR)
 Class 434 : EDUCATION AND DEMONSTRATION
 434/307R CATHODE RAY SCREEN DISPLAY AND AUDIO MEANS
- 2 434/322 (0 OR, 2 XR)
 Class 434 : EDUCATION AND DEMONSTRATION
 434/322 QUESTION OR PROBLEM ELICITING RESPONSE
- 2 434/350 (2 OR, 0 XR)
 Class 434 : EDUCATION AND DEMONSTRATION
 434/322 QUESTION OR PROBLEM ELICITING RESPONSE
 434/350 .Response of plural examinees communicated to
 monitor or recorder by electrical signals
- 2 703/22 (1 OR, 1 XR)
 Class 703 : DATA PROCESSING: STRUCTURAL DESIGN,
 MODELING, SIMULATION, AND EMULATION
 703/13 SIMULATING ELECTRONIC DEVICE OR ELECTRICAL
 SYSTEM
 703/22 .Software program (i.e., performance
 prediction)
- 2 703/23 (0 OR, 2 XR)
 Class 703 : DATA PROCESSING: STRUCTURAL DESIGN,
 MODELING, SIMULATION, AND EMULATION
 703/23 EMULATION
- 2 704/235 (1 OR, 1 XR)
 Class 704 : DATA PROCESSING: SPEECH SIGNAL PROCESSING,
 LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO
 COMPRESSION/DECOMPRESSION
 704/200 SPEECH SIGNAL PROCESSING
 704/231 .Recognition
 704/235 ..Speech to image
- 2 704/271 (0 OR, 2 XR)
 Class 704 : DATA PROCESSING: SPEECH SIGNAL PROCESSING,
 LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO
 COMPRESSION/DECOMPRESSION
 704/200 SPEECH SIGNAL PROCESSING
 704/270 .Application
 704/271 ..Handicap aid
- 2 705/1 (0 OR, 2 XR)
 Class 705 : DATA PROCESSING: FINANCIAL, BUSINESS
 PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION
 705/1 AUTOMATED ELECTRICAL FINANCIAL OR BUSINESS
 PRACTICE OR MANAGEMENT ARRANGEMENT
- 2 705/14 (1 OR, 1 XR)
 Class 705 : DATA PROCESSING: FINANCIAL, BUSINESS
 PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION
 705/1 AUTOMATED ELECTRICAL FINANCIAL OR BUSINESS
 PRACTICE OR MANAGEMENT ARRANGEMENT
 705/14 .Distribution or redemption of coupon, or
 incentive or promotion program

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2	705/23	(0 OR, 2 XR)
	Class	705 : DATA PROCESSING: FINANCIAL, BUSINESS
		PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION
	705/1	AUTOMATED ELECTRICAL FINANCIAL OR BUSINESS
		PRACTICE OR MANAGEMENT ARRANGEMENT
	705/16	.Including point of sale terminal or electronic
		cash register
	705/23	..Input by product or record sensing (weighing,
		scanner processing)
2	705/24	(0 OR, 2 XR)
	Class	705 : DATA PROCESSING: FINANCIAL, BUSINESS
		PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION
	705/1	AUTOMATED ELECTRICAL FINANCIAL OR BUSINESS
		PRACTICE OR MANAGEMENT ARRANGEMENT
	705/16	.Including point of sale terminal or electronic
		cash register
	705/24	..Specified transaction journal output feature
		(e.g., printed receipt, voice output, etc.)
2	705/39	(0 OR, 2 XR)
	Class	705 : DATA PROCESSING: FINANCIAL, BUSINESS
		PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION
	705/1	AUTOMATED ELECTRICAL FINANCIAL OR BUSINESS
		PRACTICE OR MANAGEMENT ARRANGEMENT
	705/35	.Finance (e.g., banking, investment or credit)
	705/39	..Including funds transfer or credit
		transaction
2	705/44	(0 OR, 2 XR)
	Class	705 : DATA PROCESSING: FINANCIAL, BUSINESS
		PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION
	705/1	AUTOMATED ELECTRICAL FINANCIAL OR BUSINESS
		PRACTICE OR MANAGEMENT ARRANGEMENT
	705/35	.Finance (e.g., banking, investment or credit)
	705/39	..Including funds transfer or credit
		transaction
	705/44	...Requiring authorization or authentication
2	706/21	(2 OR, 0 XR)
	Class	706 : DATA PROCESSING: ARTIFICIAL INTELLIGENCE
	706/15	NEURAL NETWORK
	706/16	.Learning task
	706/21	..Prediction
2	707/202	(0 OR, 2 XR)
	Class	707 : DATA PROCESSING: DATABASE AND FILE
		MANAGEMENT OR DATA STRUCTURES
	707/200	FILE OR DATABASE MAINTENANCE
	707/201	.Coherency (e.g., same view to multiple users)
	707/202	..Recoverability
2	707/8	(1 OR, 1 XR)
	Class	707 : DATA PROCESSING: DATABASE AND FILE
		MANAGEMENT OR DATA STRUCTURES
	707/1	DATABASE OR FILE ACCESSING
	707/8	.Concurrency (e.g., lock management in shared
		database)
2	709/204	(2 OR, 0 XR)

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Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: MULTIPLE COMPUTER OR PROCESS COORDINATING
 709/204 COMPUTER CONFERENCING

2 709/205 (1 OR, 1 XR)
 Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: MULTIPLE COMPUTER OR PROCESS COORDINATING
 709/204 COMPUTER CONFERENCING
 709/205 .Cooperative computer processing

2 709/236 (0 OR, 2 XR)
 Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: MULTIPLE COMPUTER OR PROCESS COORDINATING
 709/230 COMPUTER-TO-COMPUTER PROTOCOL IMPLEMENTING
 709/236 .Computer-to-computer data framing

2 709/245 (1 OR, 1 XR)
 Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: MULTIPLE COMPUTER OR PROCESS COORDINATING
 709/245 COMPUTER-TO-COMPUTER DATA ADDRESSING

2 709/247 (0 OR, 2 XR)
 Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: MULTIPLE COMPUTER OR PROCESS COORDINATING
 709/246 COMPUTER-TO-COMPUTER DATA MODIFYING
 709/247 .Compressing/decompressing

2 709/248 (0 OR, 2 XR)
 Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: MULTIPLE COMPUTER OR PROCESS COORDINATING
 709/248 MULTICOMPUTER SYNCHRONIZING

2 714/38 (2 OR, 0 XR)
 Class 714 : ERROR DETECTION/CORRECTION AND FAULT
 DETECTION/RECOVERY
 714/100 DATA PROCESSING SYSTEM ERROR OR FAULT HANDLING
 714/1 .Reliability and availability
 714/25 ..Fault locating (i.e., diagnosis or testing)
 714/37 ...Analysis (e.g., of output, state, or design)
 714/38Of computer software

2 715/512 (0 OR, 2 XR)
 Class 715 : DATA PROCESSING: PRESENTATION PROCESSING OF
 DOCUMENT
 715/500 PRESENTATION PROCESSING OF DOCUMENT
 715/512 .Annotation control

2 715/531 (0 OR, 2 XR)
 Class 715 : DATA PROCESSING: PRESENTATION PROCESSING OF
 DOCUMENT
 715/500 PRESENTATION PROCESSING OF DOCUMENT
 715/530 .Edit, composition, or storage control
 715/531 ..Text

2 715/700 (0 OR, 2 XR)
 Class 715 : DATA PROCESSING: PRESENTATION PROCESSING OF
 DOCUMENT
 715/700 OPERATOR INTERFACE (E.G., GRAPHICAL USER
 INTERFACE)

- 2 715/705 (0 OR, 2 XR)
 Class 715 : DATA PROCESSING: PRESENTATION PROCESSING OF
 DOCUMENT
 715/700 OPERATOR INTERFACE (E.G., GRAPHICAL USER
 INTERFACE)
 715/705 .Help presentation
- 2 715/805 (1 OR, 1 XR)
 Class 715 : DATA PROCESSING: PRESENTATION PROCESSING OF
 DOCUMENT
 715/700 OPERATOR INTERFACE (E.G., GRAPHICAL USER
 INTERFACE)
 715/764 .On-screen workspace or object
 715/781 ..Window or viewpoint
 715/804 ...Interwindow link or communication
 715/805On-screen link or communication (e.g., cue)
- 2 717/106 (0 OR, 2 XR)
 Class 717 : DATA PROCESSING: SOFTWARE DEVELOPMENT,
 INSTALLATION, AND MANAGEMENT
 717/100 SOFTWARE PROGRAM DEVELOPMENT TOOL (E.G.,
 INTEGRATED CASE TOOL OR STAND-ALONE DEVELOPMENT TOOL)
 717/106 .Code generation
- 2 717/137 (1 OR, 1 XR)
 Class 717 : DATA PROCESSING: SOFTWARE DEVELOPMENT,
 INSTALLATION, AND MANAGEMENT
 717/100 SOFTWARE PROGRAM DEVELOPMENT TOOL (E.G.,
 INTEGRATED CASE TOOL OR STAND-ALONE DEVELOPMENT TOOL)
 717/136 .Translation of code
 717/137 ..Source-to-source programming language
 translation
- 2 718/101 (1 OR, 1 XR)
 Class 718 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 TASK SYSTEMS: VIRTUAL MACHINE TASK OR PROCESS MANAGEMENT OR
 MANAGEMENT/CONTROL
 718/100 TASK MANAGEMENT OR CONTROL
 718/101 .Batch or transaction processing
- 2 718/102 (1 OR, 1 XR)
 Class 718 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 TASK SYSTEMS: VIRTUAL MACHINE TASK OR PROCESS MANAGEMENT OR
 MANAGEMENT/CONTROL
 718/100 TASK MANAGEMENT OR CONTROL
 718/102 .Process scheduling
- 2 719/310 (0 OR, 2 XR)
 Class 719 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: INTERPROGRAM COMMUNICATION OR INTERPROCESS
 COMMUNICATION (IPC)
 719/310 MISCELLANEOUS
- 2 719/311 (1 OR, 1 XR)
 Class 719 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: INTERPROGRAM COMMUNICATION OR INTERPROCESS
 COMMUNICATION (IPC)
 719/311 COMMON GATEWAY INTERFACE PROGRAM COMMUNICATION

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2 719/332 (0 OR, 2 XR)
Class 719 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: INTERPROGRAM COMMUNICATION OR INTERPROCESS
COMMUNICATION (IPC)
719/331 DYNAMIC LINKING, LATE BINDING
719/332 .Object oriented dynamic linking, late binding